

PT-PSE105GBSN-D-10

User Manual



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Declaration

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Please follow WEEE (Waste Electrical and Electronic Equipment) disposal instructions for old electronic products. Please do not dispose of the old product in your general household waste bin.



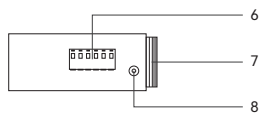
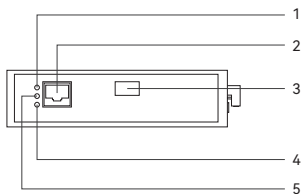
The symbol indicates that the product should not be discarded as unsorted waste but must be sent to separate collection facilities for recovery and recycling.

-Overview-

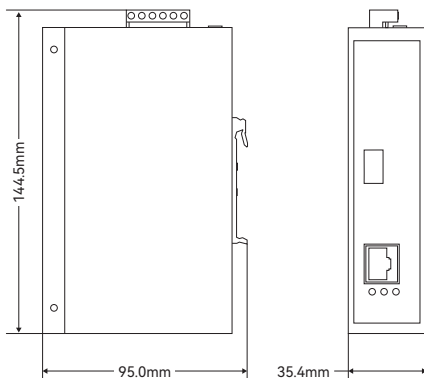
PT-PSE105GBSN-D-10 is a single-port media converter with PoE function. The single PoE output port delivers 1.75A up to 95W(max) power for remote PDs over 4 pairs. It is passive PoE injector, and it will power to PDs directly without any detection action. Such as PTZ cameras, wireless APs, base stations, and other PoE-powered devices which need high power watts.

RJ45 port supports 2.5GbE NBase-T, while the fiber slot only supports 10GE SFP+ of optical module. Enclosed in an IP40 high-impact metal case with a DIN Rail mount bracket, designed for indoor use but can work outdoors by covering it with a waterproof case. It works with an input voltage of 50-57Vdc and operates under -40°C to +65°C. For planning purposes, the effective distance is 100 meters over Cat6 cables.

-Appearance-



1. DC Power Indicator
2. PoE Output Port
3. SFP Input Port
4. Data Indicator
5. PoE Load Indicator
6. DC Input port
7. DIN Rail Mounting Bracket
8. GND Terminal



Product Diagram

Dimensions

-Specification-

Model	PT-PSE105GBSN-D-10	
Input	50-57Vdc 2.0A PoE Injector / Switch IEEE802.3bt	
Power Pins	4/5(+), 7/8(-) & 3/6(+), 1/2(-)	
Output	48-55Vdc 1750mA	
Operating Temp	-40°C to 65°C	
Operating Altitude	Up to 5000 Meters	
EMC	EN 55032:2015/A11:2020 EN 55035:2017/A11:2020	
Network Protocol	IEEE802.3u/ab/bz/an	IEEE802.3ae
Data Speed	RJ45:100M/1000M/2.5G	SFP+: 10G
Dimensions & NW	144.5mm X 95mm X 35.4mm 485g	

-Troubleshooting-

Failure Phenomena	Cause Analysis	Solutions
Power supply indicator light is off	Power supply abnormal	Check PD
	Cable connection faulty	Check if the port connection is loose or the cable is damaged
	Device issue	Recommend replacing the device for troubleshooting
The power indicator light is off	Interface poor contact issues or power supply problems such as cable faults	Reconnect or replace the network cable
	Non-compliant power supply (unsupported or incompatible power supply)	Replace with a suitable Power supply
	PSE Damage	Replace PSE
Data Transmission Abnormality	Check if the total length of the PoE port connection wires exceeds 100 meters	Reduce the connection distance
	LAN port signal source failure	Is the switch functioning properly
	Ethernet data transmission failure	Check if the cable comply with the EIA/TIA568B or 568A

-Caution-

1. Please place it in a well-ventilated and dry area, and it is for indoor use only.
2. Connect the DC power cable with positive and negative wires into the DC terminal block of Procet Injector.
3. Connect a fiber cable with SFP+ optical module at 10G from your switch into the injector's SFP slot for data Input. (The optical module does not include in the package). You can choose either single-mode or multi-mode SFP transceivers.
4. Connect a CAT6 cable with the RJ45 connector into the RJ45 socket labeled PoE. On the other end of the CAT6 cable, connect to your PoE Device (such as IP Cameras etc). The total Ethernet cable length can not exceed 100 meters.
5. The device must be placed on a stable surface, preferably affixed and mounted permanently. Do not leave it "dangling" and use plugged-in cables in tension as support.

Drops, falls, and impacts experienced by the injector can compromise the internal components & cause premature failure.
6. Do not place heavy objects on top of this injector. Allow at least 5cm of clearance on all sides of the device for heat ventilation / natural convection.